

PANUSHKIN, Georgiy

People with inquisitive minds. Rech. transp. 19 no. 12:17-21 D '60.
(MIRA 13:12)

(Shipbuilding workers)

NAZAROV, M.S.; OVSYANNIKOV, N.G.; SOYUZOV, A.A.; MITAISHVILI, A.A.;
YUDIN, P.G.; SOLOV'YEV, I.F.; SVIRIDOV, A.A.; RUMYANTSEV, S.M.;
KOLICHENKO, K.N.; NIKULIN, M.R.; ORLOV, D.A.; MAYORSKIY, G.I.;
SEMENOV, I.Ya.; SUTYRIN, M.A.; KOVALEV, A.I.; VLASOV, A.A.;
LEVIN, Ya.L.; KLIMOVITSKIY, A.Z.; METAL'NIKOV, G.F.; PANUSHKIN,
G.P.; CHECHETKIN, A.V.; MIKHEYEV, V.D.; KOLOKOL'NIKOV, K.A.;
MOISEYEVA, A.I.; TIRON, G.I.; KRYLOVA, V.F.; GOFMAN, Ya.M.;
BUDCHANOV, B.F.

K.I. Korshunova; an obituary. Rech. transp. 20 no.12; D '61.
(MIRA 14:12)

(Korshunova, Kseniia Ivanovna, 1910-1961)

PANUSHKIN, V.P.

Standardization department at the Minsk Automobile Plant. Stan-
dartzatsiia 26 no.4:40-41 Ap '62. (MIRA 15:3)
(Minsk--Automobile industry) (Minsk--Standardization)

PANUSHKIN, V. S.

Strangulation of inguinal hernia in children. Vest. khir. 70:3,
1950. p. 24-7

1. Of the Clinic of Children's Surgery (Head of Department--
A. V. Shatskiy) of Leningrad State Pediatric Medical Institute.

GLML 19, 5, Nov., 1950

PANUSHKIN, V.S.

Acute appendicitis in early childhood. Vest.khir.76 no.8:45-47
S '55. (MLRA 8:11)

1. Iz kafedry khirurgii detskogo vozrasta (zav.prof. A.V.Shatskiy)
Leningradskogo pediatricheskogo meditsinskogo instituta. Leningrad
182, Kirovskiy pr. 1/3, kv.33.
(APPENDICITIS, in inf. and child
acute, diag. & management)

PANUSEKIN, V.S. kandidat meditsinskikh nauk.

Surgery of the spleen. Vest. khir. 77 no.1:35-40 Ja '56 (MIRA 9:5)

1. Iz kafedry khirurgii detakogo vozrasta (sav.-prof. A.V. Shatskiy)
Leningraðskogo pediatricheskogo meditsinskogo instituta.

(SPLENOMEGALY

thrombophlebitic, in child., diag. & surg.)

(THROMBOPHLEBITIS, compl.

splenomegaly in child., diag. & surg.)

PANUSHKIN, V.S.

AVIDON, D.B., kand.med.nauk; BAIROV, G.A., kand.med.nauk; BUTIKOVA, N.I., dotsent, kand.med.nauk; BOYKOV, G.A., kand.med.nauk; VERESHCHAGINA, L.N., kand.med.nauk; GONCHAROVA, M.N., prof., doktor med.nauk; ZHOLOBOV, L.K., vrach; ZEMSKAYA, A.G., kand.med.nauk; KAYSAR'YANTS, G.A., dotsent, kand.med.nauk; KOLESOV, A.P., doktor med.nauk; KONDRAT'YEV, A.P., kand.med.nauk; KORCHANOV, G.I., kand.med.nauk; KUTUSHEV, F.Kh., kand.med.nauk; LEVINA, O.Ya., kand.med.nauk; LYANDRES, Z.A., prof., doktor med.nauk; MOROZOVA, T.I., kand.med.nauk; MIRZOYEVA, I.I., kand.med.nauk; PANUSHKIN, V.S., kand.med.nauk; RASTORGUYEV, A.V., vrach; RUDAKOVA, T.A., kand.med.nauk; SAVITSKAYA, Ye.V., kand.med.nauk; SVISTUNOV, N.I., vrach; CHISTOVICH, G.V., kand.med.nauk; YAKOVLEVA, T.S., vrach; MARGORIN, Yevgeniy Mikhaylovich, prof., red.; DOLETSKIY, S.Ya., red.; VERESHCHAGINA, L.N., red.; RUBLEVA, M.S., tekhn.red.

[Operative surgery on children] Operativnaia khirurgia detskogo vozrasta. Leningrad, Gos.izd-vo med.lit-ry Medgiz, Leningr.otd-nie, 1960. 475 p. (MIRA 13:12)

(CHILDREN--SURGERY)

24283

Z/032/61/011/008/001/009

E073/E535

26.2141

AUTHOR: Panuška, V.

TITLE: Modified method of Pfleiderer for design calculations
of centrifugal pumps

PERIODICAL: Strojírenství, 1961, Vol.11, No.8, pp.567-573

TEXT: Theoretical formulae on centrifugal pumps are inadequate and there is a great degree of uncertainty in design calculations of impellers. This applies to some extent to the delivery head for a given delivery but it applies to a much greater extent to the point of optimum efficiency, the Q-H curve and the suction ability of the pump. The formula of Pfleiderer does not contain any data on the width of the impeller, particularly at the outflow end; Pfleiderer gives recommendations of the radial outflow speed in terms of the ratio of the circumferential speed. Similarly, American and Soviet authors introduce that speed in terms of various coefficients as a function of the specific r.p.m. If the design calculations of the impeller are to be unequivocal, it is necessary to supplement the condition on the delivery head, i.e. the Euler equation, by the

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Modified method of Pfleiderer ... Z/032/61/011/008/001/009
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condition of the flow rate on the basis of the loading of the individual impeller blades. In accordance with the analogy law of the changes in the parameters, it can be assumed that the specific pressure on the blade increases with increasing value of the square of the circumferential speed. The differential equation of the pump output can be written thus

$$Q \gamma dH = z p b dr r \omega,$$

and by introducing

$$p = k(r\omega)^2$$

we obtain

$$\begin{aligned} Q \gamma dH &= z k (r\omega)^2 b r \omega dr, \\ Q \gamma dH &= z b k \omega^3 r^3 dr, \\ Q \gamma H &= z k \omega^3 \int_{r_1}^{r_2} b r^3 dr, \end{aligned} \quad (1)$$

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Modified method of Pfleiderer ...

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where Q - the flow rate, m^3/sec ; H - delivery head, m ;
 b - width of the impeller, m ; r - radius, m ; r_1 , r_2 - roots and
tips of the blades, m ; γ - specific gravity of the pumped liquid,
 kg/m^3 ; z - number of blades; k - coefficient, $kg\ s^2/m^4$, by means
of which the specific load and $p = k (r\omega)^2$ is calculated;
 p - specific load of the blades, kg/m^2 , at the radius r .

It is advantageous to solve the integral $\int_{r_1}^{r_2} b r^3 dr$ graphically

since the relation between b and r cannot be determined by
simple means and the graphical solution is accurate enough for
practical requirements. Fig.1 shows the graphical solution of
this differential equation. In this solution attention must be
paid to the dimensions. In the case of an impeller of constant
width, $b = const.$ the equation simplifies to

$$Q \gamma H = z \omega^3 b k \int_{r_1}^{r_2} r^3 dr,$$

$$Q \gamma H = 1/4 z \omega^3 b k (r_2^4 - r_1^4). \quad (2)$$

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Modified method of Pfleiderer ...

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The value of k was determined for a large number of impellers from drawings and from experimentally determined $Q-H$ and $Q-\eta$ curves. The k values of good and excellent quality pumps were plotted in a diagram as a function of ℓ_s/t_s , Fig.3, whereby the meaning of the symbols ℓ_s and t_s can be seen from Fig.2 (středni proudnice - mean stream line). It is remarkable that the coefficient k is not dependent on the specific r.p.m. This applies both to diagonal runner pumps and propeller pumps. The investigations also showed that optimum runners were not always combined with optimum guide vanes. The coefficient k was determined on the basis of the real delivery Q without taking into consideration losses at the sealing rings. On the basis of the here expressed additional condition, a number of new impellers were designed, all of which not only have a good efficiency but they have the optimum efficiency at the rated delivery. It was found that optimum designs have the highest efficiency when the product QH is highest, i.e. when the theoretical work of the pump is highest. Fig.4 shows a typical characteristic of a well designed pump; the optimum delivery is at

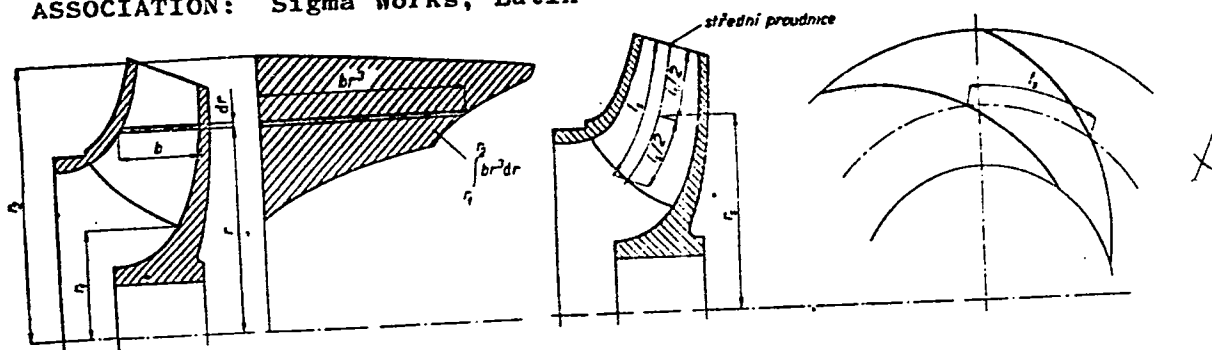
Card 4/6

Modified method of Pfleiderer ...

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Z/032/61/011/008/001/009
E073/E535

the point a. The application of the here derived relations is illustrated on the example of a centrifugal pump $Q = 60$ litres/sec, $H_{\text{man}} = 600$ m, $n = 1450$ r.p.m. Detailed calculations are carried out for pumps with 10, 6 and 4 blades, respectively. The here described method is also applicable forrunner wheels of hydraulic turbines and turbocompressors. There are 8 figures and 3 tables.

ASSOCIATION: Sigma Works, Lutín



Card 5/6

Fig.1.

Fig.2

PANUSKA, V.

Pulse amplifiers with transistors. Automatizace 5 no.7:204-
205 J1 '62.

L 51810-65

ACCESSION NR: AP5016856

CZ/0014/64/000/009/0330/0331

AUTHOR: Pamuska, Vaclav (Engineer)

13
B

TITLE: Tunnel diode capacitance meter

SOURCE: Sdelovaci technika, no. 9, 1964, 330-331

TOPIC TAGS: capacitance bridge, tunnel diode

ABSTRACT: Discussed is the problem of selecting a suitable capacitance meter for measuring parameters of tunnel diodes. A method is presented how to find the correct measuring frequency and check points guaranteeing a minimum in the measuring error. Description and diagrams of the meter are given. Reproducibility of measurement in capacities greater than 20pF is better than 5 percent. Orig. art. has: 7 formulas, 5 figures, 2 graphs.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: EC, EM

NO REF SOV: 000

OTHER: 005

JPRS

gah 1/1
C6rd

L 34528-66

ACC NO: AP6024774

SOURCE CODE: CZ/0014/65/000/007/0250/0252

AUTHOR: Horna, Otakar A. (Engineer; Candidate of sciences); Panuska, Vaclav (Engineer) 44
B

ORG: none

TITLE: Accurate instrument for measurement of tunnel diode static responses

SOURCE: Sdelovaci technika, no. 7, 1965, 250-252

TOPIC TAGS: tunnel diode, electric measuring instrument

ABSTRACT: The article describes a modified Goodman test set which permits measuring the static characteristics of a diode in its entire range with an accuracy better than 1%, for basic research on circuits with tunnel diodes and for the selection of those diodes for certain circuits requiring close tolerances. Orig. art. has: 7 figures and 12 formulas. [JPRS]

SUB CODE: 09, 14 / SUBM DATE: none / ORIG REF: 002 / OTH REF: 002

KLICNAR, J.; KOSEK, F.; PANUSOVA, S.

Synthesis and electric conductance of the 2,3-distyryl-6-nitro-quinoxaline. Coll Cz Chem 29 no.1:206-213 Ja'64

1. Institut für organische Chemie und Institut für Physik,
Technische Hochschule für Chemie, Pardubice.

KLAZAR, Jan; PANUSOVA, Sona

Preparation of α -bromonaphthalene. Chem prum 13 no.11:
585 N°63.

1. Vesoka skola chemickotechnologicka, Pardubice.

KLICNAR, Jiri; KOSEK, Frantisek; PANUSOVA, Sona; VETESNIK, Pavel

Preparation and electric conductivity of 6-nitroquinoxaline
methyl derivatives. Sbor VŠCHT Pardubice no.1:103-110 '64.

1. Chair of Organic Chemistry and Chair of Physics of the
Higher School of Chemical Technology, Pardubice. Submitted
October 19, 1963.

PANUSZ, H.

POL.

Micro-iodometric determination of guanine. A. Dincowaki and H. Panusz (Univ. Lodz, Lodz, Poland). *Acta Biochim. Polon.* 11: 81-92 (1964).—A 0.1 ml. soln., contg. 30-80 γ guanine (I) in a 6-ml. volumetric flask was mixed with 0.2 ml. 0.02N iodine and 0.1 ml. 40% NaOH and left for 1.5-2 hrs. A blank soln. was treated identically. An excess of 2N H_2SO_4 (approx. 0.3 ml.) was added and the soln. titrated with 0.005N $Na_2S_2O_3$, with starch as indicator, 1 ml. of thio-sulfate is equiv. to 128 γ iodine. The effect of excess NaOH, H_2SO_4 , temp. variations and the time of addn. of indicator on the values of blank titrations was negligible. The oxidation of I was slower in more dil. iodine soln. In acid soln. no reaction takes place; in slightly alk. soln. the oxidation proceeds rapidly and 2 moles of iodine are used for 1 mole I; in 10% NaOH or more I is oxidized quantitatively in 40 min. using 2 moles of iodine for one of I. Raising the temp. does not change the 2:1 ratio. Adenine is not oxidized under any of the above conditions. By this method the I content of scales of *psoriasis vulgaris* was 290 mg. %. I. Z. R.

MA
gaw
①

PANUSZ, H.; DIMOCHOWSKI, A.

"A Method for Microdetermination of Guanine, " p. 81. (ACTA BIOCHIMICA
POLONICA, Vol. 1, No. 1/2, 1954, Warszawa, Poland.)

SO: Monthly List of East European Accessions, (EEAL), LC,
Vol. 4, No. 5, May 1955, Uncl.

LEWKO, W.; PANUSZ, H.

Polarographic method of determination of adenine compounds in the blood. Polski tygod. lek. 9 no.34:1057-1063 23 Aug 54.

1. Z Zakladu Interny Polowej Akademii Medycznej w Lodzi; kierownik: prof. dr med. A.Himmel.

(BLOOD,
adenine cpds., polarography)
(ADENINE, in blood,
determ., polarography)
(POLAROGRAPHY,
of adenine in blood)

PANUSZ, H.

Structure of nucleoproteins. Postepy biochem. 2 no.1:77-90
1956.

(NUCLEOPROTEINS,
structure, review (Pol))

MIENICKI, Marian; PANUSZ, Henryk

Essay of determination of specific action of autoserum in psoriasis based on electrophoretic detection of protein fractions. Przegl. dermat., Warsz. 6 no.5:407-418 Sept-Oct 56.

1. Ze Szpitala im. E. Sonnenberga w Łodzi. Dyrektor i Ordynator prof. dr. M. Mienicki i z Kliniki Interny Polowej A.M. w Łodzi Kierownik: doc. dr. A. Himmel. Łódź, Szpital im. E. Sonnenberga, Tramwajowa 15.

(PSORIASIS, therapy,

autosera, eff. on blood proteins, electrophoresis (Pol))

(IMMUNE SERUMS, therapeutic use,

autoserum in psoriasis, eff. on blood proteins, electrophoresis (Pol))

(BLOOD PROTEINS, in various diseases,

psoriasis, eff. of autoserum, electrophoresis (Pol))

HIMMEL, A.; RUSZKOWSKI, M.; PANUSZ, H.; BOMSKI, H.

Acute plasma cell leukemia with atypical course. Polskie arch.
med. wewn. 26 no.10:1557-1576 1956.

1. Z Kliniki Interny Polowej A.M. w Łodzi. Łódź, ul. Piotrkowska
249 m. 31.

(MYELOMA, PLASMA CELL, case reports,
atypical case (Pol))

HIMMEL, Andrzej; PANUSZ, Henryk; BOBINSKI, Henryk

Changes in carbohydrates metabolism induced by nadisan (BZ 55) in the healthy organism. 2. Polski tygod. lek. 13 no.24:907-915 16 June 58.

1. Z Kliniki Interny Polowej A. M. w Lodzi. Adres: Lodz, ul. Zeromskiego 113. Klin. Interny Polowej A. M.

(ANTIDIABETICS, eff.

carbutamide on blood sugar in normal cond. (Pol))

(BLOOD SUGAR, eff. of drugs on

carbutamide in normal cond. (Pol))

MACIEJEWSKI, A.; RUSZKOWSKI, M.; MAZURKIEWICZ, M.; PANUSZ, H.; BOBINSKI, H.;
HEWEIKE, J.; KARGER, E.

Studies on blood proteins in children in general anesthesia. *Pediat.
polaka* 34 no.1:37-51 Jan 59.

1. Z Kliniki Chirurgii Dziecięcej A. M. w Łodzi Kierownik: prof. dr
med. A. Maciejewski. Adres: Łódź, ul. Armii Czerwonej 15.

(ANESTHESIA, eff.

on blood proteins in child. (Pol))

(BLOOD PROTEINS,

eff. of anesth. in child. (Pol))

PANUSZ, Henryk; GROSS, Maria; FILIPOWICZ, Bronislaw

Quantitative interpretation of polarographic waves for low concentrations of an organic depolarizer with the use of measurements of test samples of adenine. I. Investigations of standard solutions.
Chem anal 5 no.4:645-655 '60. (EEAI 10:9)

1. Department of Physiological Chemistry, Academy of Medicine, Lodz.

(Polarograph and polarography) (Adenine)
(Solutions)

MACIEJEWSKI, A.; BOBINSKI, H.; PANUSZ, H.; KIERUCZENKO, A.

Studies on sodium-potassium shifts in extravasated blood of operated children. Acta physiol pol 12 no.3:425-432 '61.

1. Z Kliniki Chirurgii Dziecięcej A.M. w Łodzi Kierownik: prof dr A. Maciejewski.
(POTASSIUM blood) (SODIUM blood) (SURGERY OPERATIVE blood)

GREGER, J.; PANUSZ, H.; SKARZYNSKI, J.

A modification of flame photometry method for the determination of Ca, K and Na in the biological material. Postepy biochem. 8 no.4:567 '62.

1. Z Zakladu Chemii Fizjologicznej AM i Zakladu Chemii Ogolnej AM w Lodzi.

(PHOTOMETRY) (CALCIUM) (POTASSIUM) (SODIUM)

SKOCZYLAS, Bogna; GROSS, Maria; PANUSZ, H.

The reproducibility of the composition of DN-protein isolated from purified thymus nuclei. Acta biochim. pol. 10 no.4:353-362 '63.

1. Department of Physiological Chemistry, Medical School, Lodz.
(NUCLEOPROTEINS) (THYMUS GLAND)
(HISTOCHEMISTRY) (DNA) (CHEMISTRY)

GREGGER, Janusz; PANUSZ, Henryk; SKARZYNSKI, Jozef

Condition for determination of calcium, potassium, and sodium by flame photometry with the exclusion of the influence of diversity of the biological material. Chem anal 8 no.2:163-170 '63.

1. Department of General Chemistry, and Department of Physiological Chemistry, Academy of Medicine, Lodz.

NIKOLAEV, A.G.; PEREKHOVOS, S.M.; PANUTSA, L.

Variability of the chemical characteristics in *Mentha sachalinensis*. Trudy po khim.prirod soed. no.5:93-104 '62. (MIRA 16:11)

1. Laboratoriya biokhimii efironosov Kishinevskogo gosudarstvennogo universiteta.

PANVILENKOVA, L.V.

Influenzal epilepsy in children. Vop. psikh. i nevr. no.5:89-92
'59. (MIRA 14:5)

1. Iz detskoy psikhonevrologicheskoy bol'nitsy (glavnyy vrach -
P.V.Mashlakova, nauchnyy rukovoditel' -- prof. S.S.Mnukhin).
(EPILEPSY) (INFLUENZA)

PANVILOVA, G.V., kand.med.nauk

Disease of the skull bones in Recklinghausen's neurofibromatosis.
Oft. zhur. 16 no.4:217-221 '61. (MIRA 14:7)

1. Iz Ukrainskogo nauchno-issledovatel'skogo eksperimental'nogo
instituta glaznykh bolezney i tkanevoy terapii imeni akademika
V.P.Filatov (direktor - prof. N.A.Puchkovskaya).
(OSTEITIS FIBROSA) (SKULL—DISEASES)

PANIARSKIĬ, I.

Aviatsiia spetsial' nogo primeneniia. [Aviation of special uses]. (Grazhdanskaia, 1938, no. 8, p. 12-17; illus).
DLC: TL504.G7

SO: Soviet Transportation and Communication, A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

PANIARSKIY, I. [deceased]

"A drop of gasoline." A.I. Krasnev. Reviewed by I. Paniarskiy.
Grazhd. av. 13 no. 6:32-33 Je '56. (MIRA 9:9)
(Gasoline)

PANYAYEVA, Ol'ga Petrovna; ANDREYEVA, Ye.D., red.; AZOVKIN, N.G.,
tekhn. red.

[Beacons lights are shining]Svetiat maiaki. Riazan', Riazan-
skoe knizhnoe izd-vo, 1961. 18 p. (MIRA 15:12)

1. Sekretar' partiynogo byuro kolkhosa "Avangard" Ryazanskogo
rayona (for Panyayeva).

(Agriculture)

PANYC, O. I.

Mathematical Reviews
May 1954
Analysis

dup

Panyk, O. I. On asymptotic expansion of the solution of a boundary problem. Mat. Sbornik N.S. 32(74), 385-406 (1953). (Russian)

The author considers the asymptotic behaviour for large k of the solution to the following problem: Let T be the volume bounded by a smooth surface S ; find the function u such that (1) $\Delta u = 0$ outside T , (2) $\Delta u - k^2 u = 0$ inside T , (3) u together with its normal derivative is continuous across S , (4) u has a singularity of the type $1/4\pi R$ at a certain point P_0 outside T , and (5) u becomes zero at infinity. Put $k = k_0 \exp(i\alpha)$ where k_0 is real and $|\alpha| < \pi/4$; then as $k \rightarrow \infty$, $\lim u = 0$ inside T while, outside T , $\lim u = u_0$ where u_0 is that solution of Laplace's equation which vanishes on S and has the prescribed singularity at P_0 . To terms of order $1/k$, u will be approximated outside T by that solution of Laplace's equation having the prescribed singularity at P_0 and which on S satisfies the boundary condition $u_1 = \partial u_0 / \partial n$. To terms of order $1/k^2$, u will be approximated by u_2 where u_2 is that solution of Laplace's equation having the prescribed singularity at P_0 and satisfying on S the following boundary condition:

$$u_2 = -\frac{1}{k} \left(1 + \frac{\rho}{k} \right) \frac{\partial u_0}{\partial n},$$

where ρ is the mean curvature of S at the point considered.
B. Friedman (New York, N. Y.).

1. PANYCH. N. T.
2. USSR (600)
4. Viticulture
7. "Rejuvenating" grapevine roots. Sad i og. No. 12, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

- [illegible]

PANYCH, N.T.

Protecting grapes against pests and diseases; practices on the
Lenin State Farm. Zashch. rast. ot vred. i bol. 4 no.5:9-12
S-0 '59. (MIRA 16:1)

1. Glavnyy agronom vinogradno-vinodel'cheskogo sovkhoza imeni
Lenina, Anapskiy rayon, Krasnodarskogo kraya.

(Grapes—Diseases and pests)
(Spraying and dusting in agriculture)

1ST AND 2ND LETTER										3RD AND 4TH LETTER										5TH AND 6TH LETTER										7TH AND 8TH LETTER									
AUTHOR										TITLE										SUBJECT										CLASSIFICATION									
1225. Approximate boundary conditions in diffusion problems. O. J. RAVICH, Dokl. Akad. Nauk, USSR, 70 (No. 4) 589-92 (1950) in Russian.																																							
1225. Approximate boundary conditions in diffusion problems. O. J. RAVICH, Dokl. Akad. Nauk, USSR, 70 (No. 4) 589-92 (1950) in Russian.																																							

PANYCH, O. I.

Mathematical Reviews
May 1954
Analysis

10-7-54

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✓ Panyč, O. I. On asymptotic expansion of the solution of a boundary problem. Mat. Sbornik N.S. 32(74), 385-406 (1953). (Russian)

The author considers the asymptotic behaviour for large k of the solution to the following problem: Let T be the volume bounded by a smooth surface S ; find the function u such that (1) $\Delta u = 0$ outside T , (2) $\Delta u - k^2 u = 0$ inside T , (3) u together with its normal derivative is continuous across S , (4) u has a singularity of the type $1/4\pi R$ at a certain point P_0 outside T , and (5) u becomes zero at infinity. Put $k = k_0 \exp(i\alpha)$ where k_0 is real and $|\alpha| < \pi/4$; then as $k \rightarrow \infty$, $\lim u = 0$ inside T while, outside T , $\lim u = u_0$ where u_0 is that solution of Laplace's equation which vanishes on S and has the prescribed singularity at P_0 . To terms of order $1/k$, u will be approximated outside T by that solution of Laplace's equation having the prescribed singularity at P_0 and which on S satisfies the boundary condition $u_1 = \partial u_1 / \partial n$. To terms of order $1/k^2$, u will be approximated by u_2 where u_2 is that solution of Laplace's equation having the prescribed singularity at P_0 and satisfying on S the following boundary condition:

$$u_2 = \frac{1}{k} \left(1 + \frac{\rho}{k} \right) \frac{\partial u_2}{\partial n},$$

where ρ is the mean curvature of S at the point considered.

B. Friedman (New York, N. Y.).

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PANYCHEV, A.

As the result of improving economic analysis. Fin.SSSR 21
no.6:62-64 Je '60. (MIRA 13:6)

1. Nachal'nik Upravleniya Ministerstva finansov Kirgizskoy SSR.
(Kirghizistan--Finance)

PANYCHEV, I.M.

Improved device for regulating contact inserts of pedals. Avtom.
telem. i svyaz' 8 no.1:32 Ja '64. (MIRA 17:3)

1. Nachal'nik Moldavskogo filiala laboratorii signalizatsii i
svyazi Odessk-Kishinevskoy dorogi.

PANYEYAKH, B. P., Cand. Phys-Math. Sci. (diss) "Fur'ye Transformations and Questions of Solvability of General Systems of Differential Equations in Partial Derivatives with Constant Coefficients." Moscow, 1961, 8 pp (Leningrad State Pedagog. Instl.) 20 copies (KL Supp 12-61, 253).

PANYI, L; HRABOVSKY, O.

"Hydraulic hoisting." (To be contd.) p. 217.

BANYASZATI LAPOK. (Magyar Banyaszati es Kohaszati Egyesulet). Budapest, Hungary, Vol. 12, No. 13, July 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959.
Uncla.

PANYKO, Sandor

Reflex pocket radio sets for middle and short waves. Radiotekhnika
15 no.1:29 Ja '65.

PRINTED. Under

Identification: no. 127 of 477. At present, but should be in
no. 127. In 1965.

PANYR, J.

Send us your remarks on the new draft of signaling rules. p. 119.

ZELEZNICAR. (Ministerstvo dopravy) Praha, Czechoslovakia, No. 5, May 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 7, July 1959
UNCL

PANYR, M.; CHOCIMOVSKY, I.; MACHACEK, V.

"Description of the house of the physical laboratories at the Institute of Nuclear Physics of the Czechoslovak Academy of Sciences."

JADERNA ENERGIE. Praha, Czechoslovakia. Vol. 4, no. 9, Sept. 1958

Monthly list of East European Acquisitions (EEAI), LC, Vol. 8, No. 6, Jun 59, Unclass

COUNTRY : Czechoslovakia H-6
 CATEGORY : Chemical Technology. Chemical Products and Their
 Applications--Safety and sanitation.
 ABS. JOUR. : RZKhim., no. 21 1959, No. 75554
 AUTHOR : Machacek, V., Hubacek, M., Kos, E., Panyr, M., and
 TITLE : Not given
 TITLE : Layout of a Radiochemical Laboratory for Work
 with Substances of Medium and High Radioactivity
 ORIG. PUB. : Jaderna Energie, 5, No 2, 55-60 (1959)
 ABSTRACT : The layout of the physical chemistry laboratory
 at the Nuclear Physics Institute, currently un-
 der construction in the Czech Peoples Republic,
 is described. The work of the laboratory will
 involve substances of medium and high alpha,
 beta, and gamma activity. The laboratory is di-
 vided into four sections, depending on the degree
 of radioactivity of the substances to be handled.
 The first section comprises the 'hot' laboratory
 for work with substances of very high activities.
 CARD: 1/4 * Weber, M.

COUNTRY	: Czechoslovakia	H-6
CATEGORY	:	
ABS. JOUR.	: RZKhim., No. 21 1959, No.	75334
AUTHOR	:	
INST.	:	
TITLE	:	
ORIG. PUB.	:	
ABSTRACT	: This section contains insulated pits in which all operations involving radioactive substances are carried out with remote-controlled manipulators. The laboratory is divided into a zone of unconditioned activity [sic] (inner part of pit), a zone of conditioned activity, and a safe zone. A second section comprises the 'semi-hot' laboratory for work with substances having beta and gamma activities of the order of 5 curies per hood. This laboratory is also subdivided into	
CARD:	2/4	

COUNTRY : Czechoslovakia
CATEGORY :

H-6

ABS. JOUR. : RZKhim., No. 21 1959, No.

75334

AUTHOR :
INSTR. :
TITLE :

ORIG. PUB. :

ABSTRACT : corresponding zones [sic] and the materials are handled with manipulators. A third laboratory for radiochemical investigations is located between the 'semi-hot' laboratory and the laboratory for work with pure alpha particles. Safety procedures have been worked out for the protection of the personnel in the above-indicated laboratories. The transport of the radioactive materials and the removal of the radioactive wastes are carried out with special remote-controlled apparatus. The pits are separated from

CARD: 3/4

PANYR, M. and others.

Arrangement of sanitary loops in laboratories and workshops handling radio-active materials. p. 16T

JADERNA ENERGIE. (Ministerstvo energetiky) Praha, Czechoslovakia. Vol. 5, No. 5
May 1959

Monthly List of East European Accessions (EEAI), IV, Vol. 8, No. 7, July 1959
Uncl.

ELFMARK, Jaroslav; PANYR, Milos

Heavy and hydrated concrete, its composition and use. Jaderna energie
6 no.2:50-52 P '60.

1. Chemoprojekt, Praha.

21.1310
21(4,9)

66017

CZ/38-60-2-5/22

AUTHORS: Elfmark, Jaroslav; Panýr, Miloš
 TITLE: Heavy and Hydrated Concrete, Its Composition and Use
 PERIODICAL: Jaderná Energie, 1960, Nr 2, pp 50 - 52

ABSTRACT: This article is an analysis of the types of concrete that are best suited for reactor shielding, i.e. screening off gamma and neutron radiation. The author stresses that ordinary concrete (specific gravity 2,300 kg/m³) is unsuited for screening off very intense gamma radiation, because extremely thick walls would be required. Ordinary concrete, the author holds, is absolutely unable to slow down neutrons, since water molecules - which are the chief deterrant agents - must be chemically bound with certain types of concrete. For nuclear technology, a concrete composition is needed which will bind about twice the quantity of water than ordinary concrete (ordinary concrete binds approximately 20% of its weight). Therefore, it is necessary to produce so-called hydrated concrete. The author considers limonite ($2\text{Fe}_2\text{O}_3 \cdot 3\text{H}_2\text{O}$) a suitable mineral for the production of hydrated concrete and gives the compression strength and specific gravity of the only suitable limonite of Czechoslovak origin: 296 kg/m² and 3,230 kg/m³ respectively. This mineral is capable of binding water up

Card 1/3

66017

Heavy and Hydrated Concrete, Its Composition and Use

CZ/38-60-2-5/22

to 11% of its own weight. The author stresses that the reinforcement material of hydrated and heavy concrete must also have a high compression strength and a great specific gravity, in order to function as a shield against gamma radiation. Some data on reinforcement materials are given. The shielding capability of concrete necessitates two requirements: a) a certain specific gravity and b) a certain quantity of hydrogen in the form of chemically bound water in 1 m³ of concrete. It is emphasized that the concrete must also have sufficient bearing qualities and shows by the following formula the rate of cement needed in order to obtain sufficient compression strength, i.e. cubical strength: 4

$$K = 0.5 K_c \left(\frac{c}{v} - 0.5 \right)$$

Legend: K = cubical strength of concrete; K_c = type of cement; c = quantity of cement (kg) per 1 m³ of concrete; v = quantity of water (kg) per 1 m³ of concrete. Advising on the practical application of heavy and hydrated concrete the author points out that it was first used in Czechoslovakia in the construction of the ČSAV Nuclear Research Institute. Concrete of 3.2 t/m³, for instance, was used for the reactor shield which had a wall thickness of 2.5 m, while heavy concrete of 4.2 t/m³ was utilized

Card 2/3

66017

Heavy and Hydratec Concrete, Its Composition and Use

CZ/38-60-2-5/22

for the combustion chambers. In conclusion the author gives an analysis of the economic aspects related to the application of heavy concrete, including its prices. ✓

There are: 1 table, 1 diagram, 2 photographs and 2 Czech references.

ASSOCIATION: Chemoprojekt, Prague.

Card 3/3

PANYR, Milos

Color and industrial safety in radiochemical laboratories.
Jaderna energie 10 no.11:410-412 N '64.

1. Chemoprojekt, Prague.

ACC NR: AP7002326

SOURCE CODE: CZ/0038/66/000/005/0161/0165

AUTHOR: Chochlovsky, Igor--Kholdhlovski, I.; Riha, Karol--Rzhiga, K.; Panyr, Milos;
Vorisek, Miroslav--Vorzhishok, M.; Chammrad, Bretislav--Khamrad, B.

ORG: [Chochlovsky; Riha; Panyr] Choroprojekt, Prague; [Vorisek; Chammrad] Institute
of Nuclear Research, CSAV, Roz (Ustav jaderného výzkumu CSAV)

TITLE: TR-0 heavy water zero-power reactor of Nuclear Research Institute of
Czechoslovakian Academy of Sciences

SOURCE: Jaderna energie, no. 5, 1966, 161-165

TOPIC TAGS: research reactor, heavy water

ABSTRACT: The zero-power heavy water reactor TR-0, a pulsed neutron source and an
exponential heavy water system, is described. This reactor has rod-shaped fuel
elements of natural uranium. The active zone has a diameter of 3500 mm and a height
up to 4000 mm. Its auxiliary layout was selected so that long-term studies on
heavy water reactor lattices could be carried out. The principles of the long-term
experimental program are outlined. The engineering solutions with respect to the
reactor vessel and its system for the automatic adjustment of the lattice support
and to the reactor circuits are described. The principal circuits considered are
the heavy water circuit and the inert gas circuit in which dry air is used. A
brief description is given of the construction work. This article was presented
by F. Klik. Orig. art. has: 2 figures and 6 tables. [NA]

SUB CODE: 18 / SUBM DATE: 14Oct65

Card 1/1

UDC: 621.039.5TR-0 621.039.524.46 621.039.5(437)

PANYREK, F.

Accident prevention and labor safety, duties of economic and trade-union organs, p. 221, RUDY (Ministerstvo hutniho prumyslu a rudnych dolu) Praha, Vol. 3, No. 7, July 1955

SOURCE: East European Accessions List (EEAL) Library of Congress, Vol. 4, No. 12, December 1955

137 AND 2ND CODES PROCESS AND PROPERTIES INDEX

CA

Using hot blast gases to blow out hydrogenation apparatus. *A. Pumpkin. Metalloids Zhurnal* 19, No. 2, 19-20 (1959).—Trial runs show that hot blast gases from a water-gas producer or other gas generator can be used for blowing out hydrogenation app. (the connections for the purpose are described and illustrated. With a fuel bed 1 m. thick the full blast does not give excess air and the resulting gas contains no free O_2 . Conditions for blowing out the app. with hot blast gases depend on the manner in which the gas was formed and may be governed according to the gas sample, as shown by analysis. J. P. Smith

430-31 A METALLURGICAL LITERATURE CLASSIFICATION

PANYSHEV, A.S., inzhener.

Using a heat exchanger for cooling hydrogenated fat at the Gor'kiy Hydrogenated Fat Factory. Masl.-zhir.prom. 18 no.5:25-26 My '53. (MLBA 6:5)

1. Gor'kovskiy shirkombinat.

(Oils and fats)

PANYCHEV, A.S., inzhener.

Determining the residue of iron in a solution of recovered
nickel and copper sulfates. Masl.-shir. prom. 23 no.4:37 '57.
(MIRA 10:5)

1. Gor'kovskiy shirkombinat.
(Copper sulfate) (Nickel sulfates) (Iron--Analysis)

PANYSHEV, A.S., inzh.; GUREVICH, G.L., inzh.; GRAUERMAN, L.A., kand.tekhn.
nauk; KARANTSEVICH, L.G.; UL'YANOVA, G.S.

Fiftieth anniversary of the industrial hydrogenation of fats. Masl.-
zhir.prom. 26 no.3:15-21 Mr '60. (MIRA 13:6)

1. Gor'kovskiy maslozhirovoy kombinat (for Panyshv and Gurevich).
 2. Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov (for
Grauerman, Karantsevich and Ul'yanova).
- (Oils and fats) (Hydrogenation)

PANYSHEVA, I.I.; STANKEVICH, L.A.

Indicator method for the detection of diphtheria bacilli. Lab. de-
lo 10 no.3:183 '64. (MIRA 17:5)

1. Dorozhnaya sanitarno-epidemiologicheskaya stantsiya Gor'kovs-
koy zheleznoy dorogi.

PANYSHEVA, L., kand.biologicheskikh nauk

Chemical map of living organisms. IUn. tekhn. 5 no. 2:25-29 p 1961.

(MIRA 14:5)

(Biochemistry)

PANYSHEVA, L. V.

"Phenothiazine--in Capillariosis of the Urinary

Bladder of Silver Foxes," Veterinariya, No. 4, 1948.

All-Union Inst. Helminthol im. K. I. Skryabin, -c1948-.

PANYSHEVA, L. V.

Panyшева, L. V. "The effect of phenothiazin on the blood chart of minks",
Karakulevodstvo i zverovodstvo, 1949, No. 1, p. 70-72.

SO: U-3042, 11 March 53, (Letopis'nykh Statey, No. 10, 1949).

PETROV, A.M., PANYSHEVA, L.V.

Minks - Diseases

Treatment of capillaritis of the stomach and bladder in mink and sable with phenothiazine. Kar. i zver., 5 No. 1, 1952

9. Monthly List of Russian Accessions, Library of Congress, June ¹⁹⁵²~~1953~~, Uncl.

PANYSHOVA, L.V.

PETROV, A.M., prof.; PANYSHOVA, L.V.

Testing phenothiazine control capillarioroses of the stomach and
bladder in minks and sables. Trudy VIGIS 5:167-172 '53. (MIRA 11:1)
(Phenothiazine) (Nematoda)
(Parasites--Fur-bearing animals)

PANYSHEVA, L.V.

✓ Phenothiazine in capillariosis of the stomach and urinary bladder of weasels and sables. A. M. Petrov and L. V. Panysheva. *Trudy Vsesoyuz. Inst. Gel'mintol.* 5, 187-72 (1953); *Referat. Zhur. Khim., Biol. Khim.* 1953, No. 2047. — Phenothiazine possesses anthelmintic properties. It causes temporary hyperemia of the kidneys and a considerable increase in the size of the spleen in weasels. B. S. Levine

①

FADDEYEV, L.A., prof.; PANYSHEVA, L.V., dots.; POLYAKIN, V.V., assistant

Classification of diseases of the forestomachs in cattle. Veteri-
naria 36 no.2:67-70 P '59. (MIRA 12:2)

1. Moskovskaya veterinarnaya akademiya.
(Cattle--diseases and pests)

PANYSHEVA, Lidiya Vasil'yevna, kand.veterin.nauk; LIPIN, V.A., kand.veterin.nauk; TARASOV, Vasil'y Romanovich, kand.veterin.nauk; LIPINA, Yelena Ivanovna, kand.veterin.nauk; UTKIN, Leonid Georgiyevich, kand.biol.nauk; DOMRACHEV, G.V., prof., doktor veterin.nauk, zaslužennyy deyatel' nauki [deceased], red.; DIKAREV, P.I., red.; GOR'KOVA, Z.D., tekhn.red.

[Diseases of dogs (noninfectious); a practical manual for veterinarians and veterinary technicians] Bolesni sobak (nezaraznye); prakticheskoe rukovodstvo dlia veterinarnykh vrachei i veterinarnykh tekhnikov. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1958. 445 p. (MIRA 12:4)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Domrachev). (Dogs--Diseases)

KLYCHENAREV, A. P.; PANYUK, Yu. N.; RUTKEVICH, N. Ya.; SHUMILOV, S. N. 3

"Concerning Reactions of Total Disintegration of Nuclei."

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi,
14-22 Feb 64.

PANYUKHIN, V.I., inzh.

New diesel-electric excavator built at the Kovrovo Plant. Mekh.
stroil. 16 no.2:8-12 P '59. (MIRA 12:2)
(Excavating machinery--Electric driving)

PANYUKHIN, V. I., inzh.

Automatic excavator brakes. Stroi. i dor. mashinostr. 5 no.11:10-13
N '60. (MIRA 13:10)

(Excavating machinery--Brakes)

PANYUKHIN, V. I. Cand Tech Sci -- "Automatic brakes with mechanical ^{brake} ~~brake~~ in excavators and cranes." Mos, 1961 (Min of Higher and Secondary Specialized Education RSFSR. Mos Mining Inst im I. V. Stalin). (KL, 4-61, 199)

GRISHANOV, A.G., kand.tekhn.nauk; PANYUKHIN, V.I., kand.tekhn.nauk

Planetary winch with an automatic brake. Stro1. 1 dor. mash.
8 no.5:11-13 My '63. (MIRA 16'5)
(Winches—Brakes)

PANYUKHIN, A.I., inzh.

Load-lifting capacity indicator for jib cranes. Bezop. truda
v prom. 7 no.12:31 D '63. (MIRA 18:7)

1. kovrovskiy ekskavatornyy zavod.

PANYUKHIN, V.I., kand.tekhn.nauk

Block brake with mechanical release. Vest.mashinostr. 42
no.5:86-87 My '62. (MIRA 15:5)

(Brakes)

PANYUKHIN, V.I., kand. tekhn. nauk; ALEKSANDROV, M. P., doktor
tekhn. nauk, retsenzent; SAVEL'YEV, Ye.Ya., red.

[Automatic brakes released by the engine of the mechanism]
Avtomaticheskie tormoza, razmykaemye dvigatelem mekhanizma.
Moskva, Mashinostroenie, 1964. 93 p. (MIKA 17:9)

PANYUKHIN, A.I., aspirant

Method of preventing the locking of a clamsHELL during its
lowering onto the material. Nauch. trudy Mosk. inst. radio-
elek. i gor. elektromekh. no. 49 pt. 2:164-170 1 64.
(MIRA 19:1)

PANYUKHIN, V.I., kand.tekhn.nauk

Regulating the speed of machinery with the aid of brakes released
by the starter. Stroil. i dor. mash. 10 no.2:21-23 F '65.

(MIRA 18:3)

1ST AND 2ND LETTERS																										3RD AND 4TH LETTERS																									
COMMON ELEMENTS																										PROCESSES AND PROPERTIES INDEX																									
<i>ca</i> Agglomeration of fine dust. G. E. Panukhova, <i>Teoriya i Prakt. Met.</i> No. 12, p. 17 (1937). — The dust taken from the primary gas cleaners at the Makeyevka plant was agglomerated with Krivonog ore on a lab. scale. The ores had 3.9, 14.3 and 23.4% SiO₂. The ratio of ore to dust was 1:1. Agglomeration was best with dust of 0.5-3.0 mm. The charge should contain 10% H₂O and 3.5% C. Addn. of Mn ores improves the process. Use of dust from secondary gas cleaners did not give satisfactory results. B. Z. Kamich																										27																									
550-554 METALLURGICAL LITERATURE CLASSIFICATION																										6-2																									

LEVENETS, N.P.; SAMARIN, A.M.; SEMIKIN, I.D.; KAZAKOV, V.E.; BEMBINEK, Ye.I.;
PANYUKHNO, L.G.; SVINOLBOV, N.P.; AVERIN, S.I.; SMIRNOV, V.M.;
ZELENSKIY, V.D.; LAYKO, B.G.; TISHCHENKO, O.I.; OKHRIMOVICH, B.P.;
DANILOV, A.M.; TISHKOV, Yu.Ya.; PANOV, M.A.; MARKELOV, A.I.;
PETROV, A.K.; VASILEVSKIY, P.A.; PASYUK, K.I.; NESTEROV, V.I.;
KHRUSTAL'KOV, L.A.; GLAZKOV, V.S.; MAKAGON, V.G.; POMIN, G.G.;
TRISHCHENKO, V.D.; KORZH, V.P.; SUYAROV, D.I.; ARSEYEV, A.V.;
PAVLYUCHENKO, A.A.; ZHADAYEV, V.G.; KONDORSKIY, R.I.; MOROZOVA,
I.A.; KOCHETOV, V.V.; PRUZHINER, V.L.; MALEVICH, I.A.;
MALIOVANOV, D.I.; ZAKOVRYASHIN, I.I.; NOVSKIY, I.S.; NOVIKOVA,
V.P.; GRISHIN, K.N.; MOSKOVSKAYA, M.L.; KORNEYEV, B.M.

Inventions. Met. i gornorud. prom. no.3:75-76 My-Je '64.

(MIRA 17:10)

SOV/123-59-15-59596

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 15, p 102 (USSR)

AUTHORS: Magaziner, Z.G., Pakidov, P.A., Panyukhov, I.V.

TITLE: Investigations on Increasing the Accuracy of Lathework by Compensating the Strain of the Elastic System of Lathe - Tool

PERIODICAL: Tr. Omskogo mashinostroita. in-ta, 1958, Nr 2, pp 165 - 175

ABSTRACT: A device (D) for the reduction of the effects of strain in the system of lathe - tool on the accuracy of lathe-machining hubs and gears is described. The D represents a cylindrical model, the spinning axis of which tallies with the axis of the workpiece to be machined. With the aid of an elastic part a roller is pressed against the workpiece, this roller being rigidly connected with the tool holder of the machine. Test results of D are given. The proposed device increases the accuracy of machining and permits to eliminate multi-cut operations (roughing and finishing) and to replace those by one-cut operations. 9 figures, 5 references.

K.A.G.

Card 1/1

deceased

BRYUZGINA, G.; GAYEVOY, Ye., kand.sel'skokhoz.nauk; DINARIYEVA, G.; RADKEVICH, D.;
TRUDOLYUBOVA, Ye.; MASHKOV, V., kand.sel'skokhoz.nauk; PANYUKIN, I.,
kand.tekhn.nauk. [deceased]

New methods of preservation of fur and garment sheep pelts and
mechanization of their processing. Mias.ind.SSSR 33 no.5:15-21 '62.
(MIRA 15:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut myasnoy promyshlennosti
(for Bryuzgina, Gayevoy, Dinariyeva, Radkevich, Trudolyubova). 2. Nauchno-
issledovatel'skiy institut mekhovoy promyshlennosti (for Mashkov, Panyukin).
(Hides and skins) (Assembly-line methods)

PANYUKIN , I. I.

DECEASED
c. 62

1963

Fur
Hides and skins

GAYEVOY, Ye.V., kand. sel'skokhoz. nauk; PANYUKIN, I.I., kand. tekhn. nauk; MASHKOV, A.N., kand. sel'skokhoz. nauk; DINARIYEVA, G.P., mladshiy nauchnyy sotrudnik; TRUDOLYUBOVA, G.B., mladshiy nauchnyy sotrudnik; RALKEVICH, I.P., mladshiy nauchnyy sotrudnik; ERYUZGINA, G.A., mladshiy nauchnyy sotrudnik

Use of formaldehyde compounds for the conservation of fur and garment sheepskins. Trudy VNIIMP no.25:24-43 '63.
(MIRA 17:5)

GAYEVOY, Ye.V., kand. sel'skokhoz. nauk; PANYUKIN, I.I., kand. tekhn. nauk; MASHKOV, A.N., kand. sel'skokhoz. nauk; DINARIYEVA, G.P., mladshiy nauchnyy sotrudnik; KAPKOV, R.K., inzh.

Development of the methodology for the processing of fur sheepskins preserved with formaldehyde hyposulfite compounds. Trudy VNIIMP no.15:56-66 '63. (MI 17:6)

NEDZVETSKIY, S.V.; PANYUKOV, A.N.; SHPATS, T.A.

Sterols of the animal body: 7-(α)-oxycholesterin. Biokhimiia 18 no.3:
315-318 My-Je '53. (MLA 6:7)

1. Kafedra biologicheskoy khimii Leningradskogo sanitarno-gigiyenicheskogo
meditsinskogo instituta. (Cholesterol)

PANYUKOV, A. N.

Chemical Abst.
Vol. 48 No. 3
Feb. 10, 1954
Biological Chemistry

Ⓟ
Sterols of the animal organism: 7-hydroxy- α -cholesterol.
L. S. V. Nedzvetiskii, A. N. Panyukov, and M. A. Shpats
(Leningrad Med. Inst., Centr. Biol. Chem.). *Biokhimiya*
18, 316-18(1953).—Dogs received 0.5 g. of cholesterol and 2
g. of fat per kg. body wt. for 10-12 days and were then sacri-
ficed. The blood was dild. with 4 vols. of acetone and the
mindest organs were treated similarly with acetone. Re-
peated extrs. with acetone were made and the acetone frac-
tions were combined, evapd. residue extrd. with ether, fil-
tered and 20-30 ml. EtOH added to the filtrate. The ether
was evapd. and the alc. residue washed with alc. into a
conical tube and let stand overnight. A ppt. formed con-
sisting of fat, cholesterol, and its esters. The supernatant,
contg. the same as well as other sterols, was sepd. from the
ppt., the alc. evapd., and a chromatographic adsorption on
Al oxide was made of a soln. of the residue. 7-Hydroxy- α -
cholesterol is formed in the animal organism. It was iso-
lated from brain, lungs, and the blood and none from the
liver and muscle.
B. S. Levine

ROZENGART, V.I.; MASLOVA, M.N.; PANYUKOV, A.N.

Functional changes and ammonia contents in the brain of rabbits
by convulsive affects. Dokl.AN SSSR 110 no.1:122-124 S-0 '56.

(MLRA 9:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy sanitarno-khimicheskiy
institut. Predstavleno akademikom V.A.Engel'gardtom.
(BRAIN) (SPASMS) (AMMONIA)

PANYUKOV A. N.

2206. Cyclopeptides and amides from casein in the immediate products of acid hydrolysis of casein. A. N. Panyukov *Doklady Akad. Nauk SSSR*, 1956, 23, 68-107 (Chem. Abstr., 1956, 52, 107). The products of casein hydrolysis (mostly peptides) with H_2SO_4 at 100° were separated electrophoretically into three fractions (acid, weakly acid, and alkaline). 81% of the NH_2 was split off in the first 5-5.5 hours. The weakly acid fraction contains peptides of the highest mol. wt. (up to 10,000) and acid residues. The acid fraction contains peptides of low mol. wt., free dicarboxylic acids and possibly serine phosphoric acid. There is no great polydispersity of the products at any stage of hydrolysis. (Russian)

A. K. GRZYBOWSKI

PANYUKOV, A. N.

✓ The presence of cyclopeptides and of compounds of the amidine type in the intermediary products of casein acid hydrolysis. A. N. Panyukov (A. A. Zhdanov State Univ., Leningrad). *Biokhimiya* 21, 98-107 (1950). Technical grade casein was pptd. 3 times from a 0.1N NaOH soln. with 0.1N HCl. It contained 15.45% total N and 1.80% ash content. This was subjected to a complex procedure of hydrolysis consisting of several steps. Separation of the various products of casein hydrolysis was accomplished electrophoretically. Adequate descriptions are presented of the hydrolytic, electrophoretic, and analytical procedures used. In the process of heating casein in 1N H₂SO₄, 91% of the NH₃ is split off in the first 5.5 hrs. and this process is virtually complete at the end of 11 hrs. Ammonia N constitutes 10.4% of the total N of the intermediate products of casein hydrolysis. In the process of the electrophoretic separation of the intermediate products of casein hydrolysis the major part of the products is found in the weakly acid fraction and only a small quantity in the acid fraction. In the first step of casein hydrolysis 80.3% of the products were found to be peptides. In stage 1 of acid casein hydrolysis along with the dipeptides there are formed small quantities of free dicarboxylic amino acids. As the process of acid hydrolysis of casein progresses the particle size of the alk. and neutral fractions becomes reduced considerably while the particle size of the acid fractions are reduced to only a slight degree. The author is of the opinion that at all stages of the acid hydrolysis of casein the polydispersion of the fraction is not of a high order.

B. S. Levint

nick - Chem. Biol. Chem.

P. Anyu Kov, A. N.

Functional changes and content of ammonia in rabbit
brain in convulsions. V. I. Rozenart, M. I. Maslova,
and A. N. Anyukov. *Doklady Akad. Nauk S.S.S.R.* 110,
122-4 (1968). Rabbits in which convulsions were induced
by picrotoxin or corazole were the objects of experiments, in which
it was shown that rapid freezing of rabbit brain specimens
obtained during picrotoxin convulsions permits the detn.
of a 3-phase variation of NH_3 content: decline (1 min.
after convulsions began), and normal level (at 10 min.).
With corazole poisoning there was a rapid rise of NH_3 , fol-
lowed in 1 min. by a decline but not to normal level. Gluta-
mine N was not affected in either case.

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MSK

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(PHOSPHATES, metab.

phosphoproteins in brain, eff. of chem. inhib.
& irritation in animals (Rus))

(BRAIN, metab.

phosphoproteins, eff. of chem. inhib. & irritation
in animals (Rus))

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